



# TRAFFIC SPEED REPORT NO. 86

To: J. F. McLaughlin, Director September 12, 1968

Joint Highway Research Project File: 8-3-3

From: H. L. Michael, Associate Director

Joint Eighway Research Project Project: C-26-100

The attached Progress Report No. 86 on Traffic Speeds is the report of the 1968 study of free-flowing automobile and truck speeds on rural, tangent, level sections of Interstate, other 4-lane and 2-lane highways in Indiana. The study and report have been performed by Mr. Salim S. Hejal, a Graduate Instructor in Research on our staff, under the direction of Professor Michael.

The results indicate similar average speeds for all passenger cars and an increase of about 1.5 mph for all heavy trucks to those speeds noted in the 1967 study. A regression analysis of the speed data for the past eleven years indicated that the speed trend for all classes of vehicles on all classes of highway studied is an increasing one. Average speeds for passenger cars over all classes of highway have increased 0.85 mph annually and for all heavy trucks over all classes of highway the increase has been 0.87 mph annually.

Copies of this report are requested for release to the Indiana State Police, the Indiana Traffic Safety Council and the Indiana Office of Traffic Safety as is normal procedure for these reports. Copies will also be sent to the Bureau of Public Foads and several Departments within the ISHC. The report is presented for the record and for release as noted.

Respectfully submitted,

Daniel ? Manhael Harold L. Michael Associate Director

HLM: 1h

Attachment

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# Progress Report

TRAFFIC SPEED REPORT NO. 86

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Salim S. Hejal Graduate Assistant

Joint Highway Research Project

File No.: 8-3-3
Project No.: C-36-10C

Purdue University Lafayette, Indiana September 12, 1968



# ABSTRACT

This report is the annual continuing study of the speeds of vehicles on rural Indiana highways. Observations of spot speeds were taken on interstate, other four lane, and two lane highways throughout the state during the months of June and July, 1968.

Analysis of the speeds showed the over-all average speed for passenger cars was 64.5 miles per hour. The over-all average speeds for trucks on the three types of highways was 56.5 miles per hour.

A regression analysis on the available results of the pase eleven years showed an annual increase of 0.85 miles per hour for the over-all average speed of passenger cars and 0.87 miles per hour for the over-all average speed of heavy trucks.



### TRAFFIC SPEED REPORT NO. 86

This report is an analysis of spot speed observations made during June and July 1968. All observations were made of free-flowing vehicles on level, tangent sections of rural Indiana highways during daylight and under favorable weather conditions. The same locations on selected Federal and State highways as used in 1967 were used again. Most of these locations have been the same for many years. Stations were classified as - two lane, four lane, or interstate highways. A representative sample of traffic speeds was obtained at each of the four stations in each classification. The specific site of each station was as follows: (see Figure A)

# Interstate Highways

- 1. I-69 3.3 Miles South of Junction of S. R. 18
- 2. I-65 1.0 Miles West of Junction of S. R. 334
- 3. I-74 1.0 Mile East of Junction of Post Road
- 4. I-65 2.9 Miles North of Junction of S. R. 160

# Four Lene Highways

- 5. U.S. 31 1.2 Miles South of Junction of S.R. 38
- 6. U.S. 52 1.0 Mile East of Junction of S. R. 28
- 7. U. S. 41 1.0 Mile North of South Junction of S. R. 2
- 8. U. S. 52 1.0 Mile West of Klondike

# Two Lane Highways

- 9. U. S. 41 1.0 Mile North of Boswell
- 10. S. R. 43 2.0 Miles South of Chalmers
- 11. U. S. 31 3.0 Miles South of Rochester
- 12. S. R. 25 0.7 Miles West of Americus



The vehicles were classified as passenger cars or trucks. Passenger cars were further classified into two groups - Indiana or Non-Indiana and the analysis was performed as thus classified and combined. The trucks were also classified into two groups - Light (less than 5000 pounds gross weight) or Heavy (equal to or more than 5000 pounds gross weight), and again the analysis was performed as classified and combined.

The maximum speed limits in Indiana are as follows: 70 miles per hour on interstate highways and 65 miles per hour on other highways, unless otherwise posted. This is the second year that truck speed limits were the same as passenger cars. The stated maximum speed limits were applicable at all interstate, four lane and two lane stations of this study.

# Equipment and Field Procedure

The observations for this report were obtained by use of an "Electromatic" Radar Speed Meter, built by Automatic Signal Division, Eastman Industries, Inc., East Norwalk, Connecticut. The meter was placed approximately four feet from the edge of the pavement at an angle less than 10° with the highway center line. Speed inaccuracies are negligible at small angles (less than 10°) and therefore, corrections for angle were unnecessary.

At the beginning of the study the accuracy of the meter was checked; a constant discrepency of minus two miles per hour was found and hence all readings of speed were corrected accordingly.

# Results of Analysis

The data collected were analyzed and are summarized in Tables 1 to 12 in the Appendix. Tables 13, 14, and 15 summerize the data for



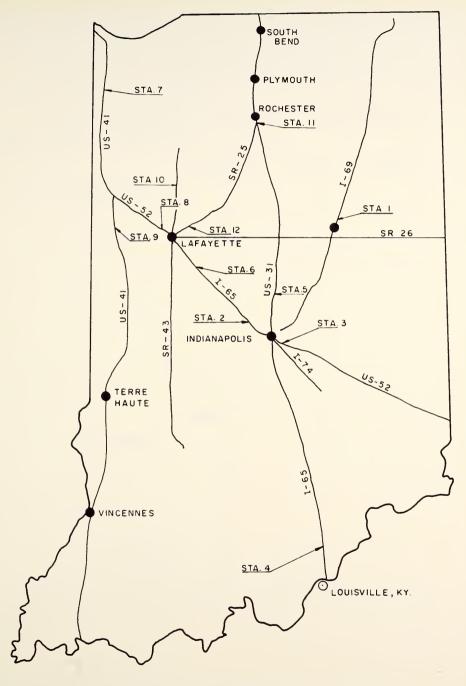


FIG. A - LOCATIONS OF SPEED-STUDY STATIONS



tre three types of facilities: intersk a for a seal two .ure Table 16 is the summary for all facilities observed

Figures 1 to 16 in the Appendix show the accumulative speed carries for each of the stations studied.

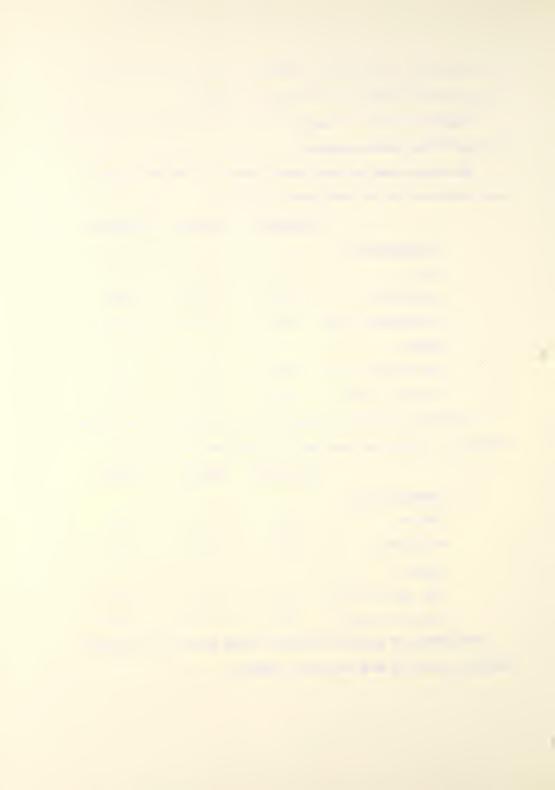
The average speed for each classification of webbles on each type of highway for this study was as follows:

	Interstate	Four Lane	Tro Lare
Passenger cars:			
Indiana	56.1	54.2	(J .2
Non-Indiana	67.9	56.2	62.4
85 percentile (all)	72.4	70.4	68.1
Trucks:			
Hess than 5000 lbs.	60.5	58.4	51.4 .
5000 lbs. or more	57.9	55.4	54.2

The percent of vehicles exceeding the specializing to cach classification of tehicle and each type of highway was as follows:

	Interstate	Four Lagu	l vo lana				
Persenger cara:							
Indiana	23.1	42.6	24.7				
Non-Indiana	32.2	56.8	32.3				
Trucks:							
less than 5000 lbs.	7.0	. 4.3	7.2				
5000 lbs. or more	0.3	4.9	3.5				

The percent of vehicles traveling 5 miles per how or here shows the speed limit for each case was as follows:



	T_10_1, 7_1	For E	
Fassenger care:			
Indiana	5.2	14.7	17.5
Non-Indiana	3.0	19.5	Ē.
Trucka:			
less than 5000 lbs	1.0	***	5
5000 lbs. or more	0.3	0.7	Q _

The results of this study and similar studies 271 11 find 1958 are tabulated in Table A. . Linear regression 1 of the results was conducted and a summary in riven in Itale.

The hypothesis  $\beta = 0$ , where  $\beta$  is the slope of it. . . graph of spends versus year (simual trend), was tested and in this of it significant for all classifications at the 5% level. Auctor by  $\beta$  thesis  $\beta = 1.0$  was tested to draw limits on the arrord from it is significant in only 4 cases and not significant in the set using the same level of significance as the previous hypothesis.

A graphical representation of tables A and B f; given to Fa gard B.



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### 11 27 1 27 27

Teathorine - 1 ke c - 12 Teagur fourions Mapa Mea 2 Two-Lame Lagrange Aug. 56.3 13.7 55.7 12150 55.7 Tail. W 51 52.4 58.2 51.7 51.0 52.7 inn 2 Four-For gust. £ . 59 1 5 .5 11.4 115 13 1 THEFT 66.1 55,75 1 15 53.2 7.40 52.7 61 9 5 .. 2 55 61.2 53 9 62,1 53.3 usg. ta Ro 41.5 48 7 N 97 58 4 43.6 4) 4 50.2 55.9 56.7 Nog. 50 3 5...0 58.2 NETTO-5.2 45.3 6( 3 5 . 1 52 5 51.1 ANG. 54 6 Filto

tera control for sect of an incidental section.



A	()				1	<del>,</del>				renormalization accounts to the Million of
a Testing	B =1.C	WS #	* 3	*\o	*	Δ. O.	*** SN	T SII	, E	ž M
Hypothesia Testing	0.0 = 9	*0	* 0:	*w	×	And the second s	*:0	*′a	* 'v	<sup>ж</sup> оз
C		SO UNITED TO THE STATE OF THE S	160.	.085	3807	6200	301	1.33	134	r.,
CV PROPERTY.		00	80 80 80 80 80 80 80 80 80 80 80 80 80 8	.868	6	408°	068	.921	40£°	6
4		1.213	00°, 0	.653	.851	0.481	863	1.11.0	029.0	0.772
-4	0	89.6-	28.00	23.36	22.9	24,22	-3.50	-23.18	6.03	5.59
No	Observa	- ω	ri	딤	80-3 61-3	Ħ	, F	ω	E	10
	Classification	Interstate Passenger Care 85 %	4 Lanes Passenger Cans 85%	2 Iones Pascengou Cars 85%	Mean of All Passenger Cars	Wean of all Light Trucks	Moen of All Heavy Tracks	Interstate Heavy Trucks 15%	4 Ignes Hoavy Trucks 15%	2 Lanes Heavy Trucks

Significant @ 5% Level or significance



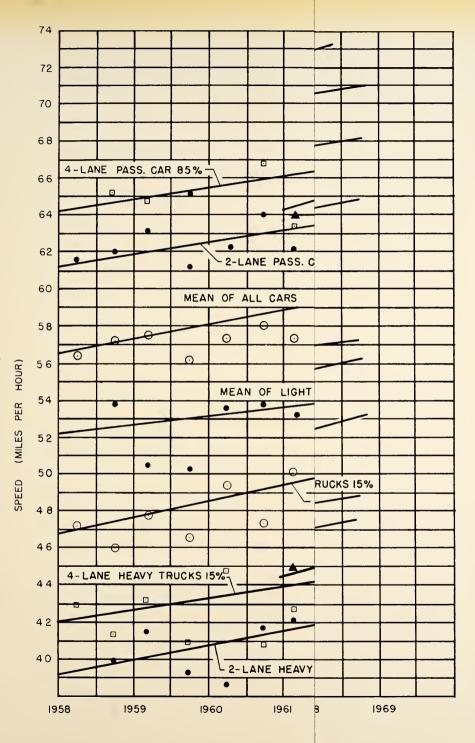


FIG.B-IN



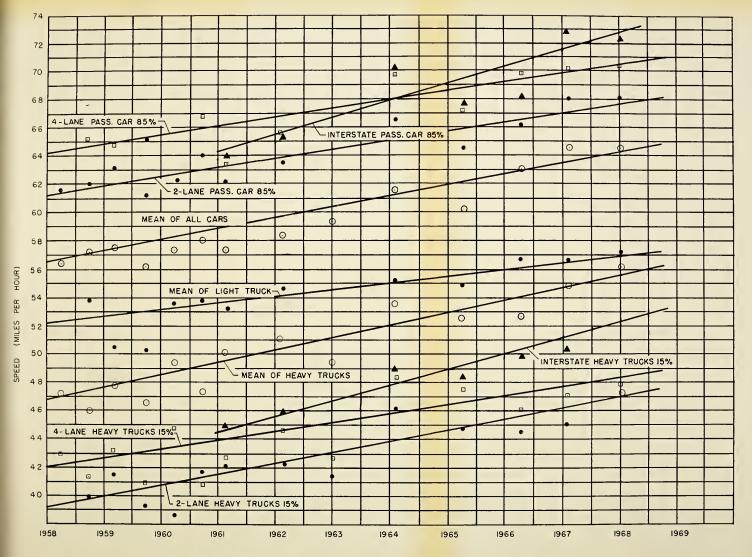


FIG.B-INDIANA RURAL SPEED TRENDS 1958-1968



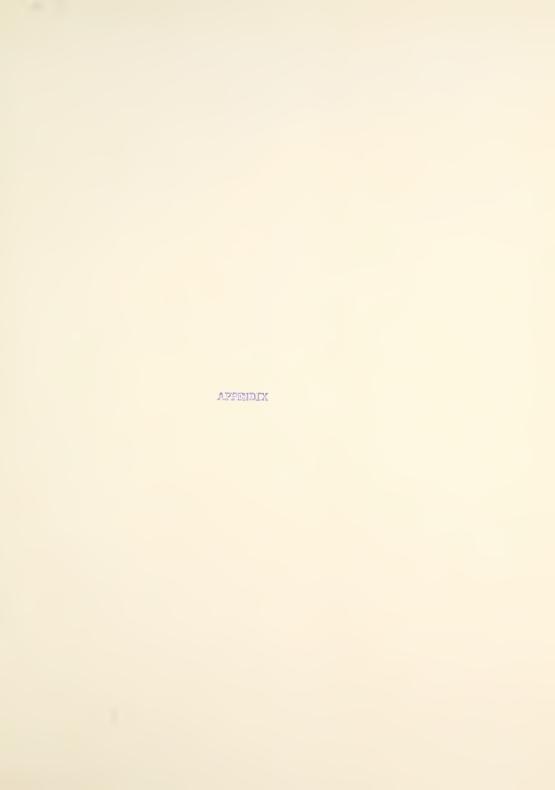
# Summary and Conclusions

The average speeds in this study were found to be similar for passenger cars and 1.5 miles per hour faster for trucks than the results of the previous year.

The linear regression on the results of the past ten years proved that there has been a definite increase in speeds for all vehicle and highway classifications studied. The annual trend for different speed characteristics such as 85 percentiles, average speeds, and 15 percentiles for passenger cars, light trucks and heavy trucks on the three classes of highways ranged between 0.48 and 1.21 miler per hour increase annually. For all passenger cars the annual increase was found to be 0.85 miles per hour for average speed and for all heavy trucks the annual increase in average speed was found to be 0.87 miles per hour.

It is interesting to note that although the speed limits for heavy trucks was increased by 15 m.p.h. to the speed limits for automobiles on the highways of Indiana a year and a half ago, no large increase has occurred in actual truck speeds. The effect of the change in speed limits for heavy trucks on actual speed appears to be nagligible. In other words, trucks travel an speeds their drivers consider safe, irrespective of maximum speed limits. The growing percentage of automobiles violating current maximum speed limits especially on four-lane highways, tends to support a similar statement, namely that their drivers also select their travel speeds in the same manner.







## Becernication > Seamle Time

It was do fred that a 95% to illende invertal of the life case of the speeds of passenger case should not be rader than but the per non-flow trucks weighing 5 000 lb. For more 1000 confidence for all with a four mile gar hour band was deplaced.

Assuming a normal distribution of speeds and atting the poundary jeviation of the grouped data of the 1965 and dy, the single size requirement was determined by:

W = sample size required

t = tabulated "t" value for 5/2 sign ficance

S = estimuted standard diristic.

L = width of the interval

For possenger dars;

For trucks:

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# TABLE \_\_\_ SPEED DATA



# TABLE 2 SPEED DATA

Tace 5, 1968 1,M12:30 1,M12:30 1,M12:30 1,M12:30 0,0 0,0 0,0 0,0 0,0 0,0 0,0 0,0 0,0 0			,	,											_								, ,			_
This Observation   Location   L		dv )		pounds	Present	100	58.0	4.92	0.0	0.0	0.0	0.0	0.0	7.0	21.0	62.0	0.06	100.0	1	1	1	1	56	58.1	44	57.9
Highway   L-65   Fortland Cement Concrete   Inather		0. C100u		5000 or	Last	92	6.73	4.11	0.0	0.0	0.0	0.0	0.0	2.6	13.2	68.4	7.46		0.001	t	ŧ	ı	1	1	1	ı
Highway   L-65			RUCKS	than	Present	25	59.9	8.20	0.0	0.0	0.0	0.0	0.0	12.0	28.0	44.0	72.0	84.0		100.0	1	t	16	59.9	6	0.09
This Obsertation   1.0 Mile is   Date   Da	1	Speed 1967	T	Less 5000	Last	19	61.1	7.67	0.0	0.0	0.0	0.0	0.0	5.3	21.12	36.8	57.9	84.2	100.0	ı	1	1	1	t	ι	1
Highway   I=65   Fortland Cement Composition	lest of S.	1 9 9		11.	Present	125	58.4	5.74	0.0	0.0	0.0	0.0	0.0	8.0	22.4	58.4	86.4	96.8	2.66	100.0	1	1	72	58.5	53	58.3
Highway   I=65   Fortland Cement Composition	Mile b	Obse		1	Last	95	58.5	5.13	0.0	0.0	0.0	0.0	0.0	3.2	14.7	62.1	87.4	95.8	100.0	ŧ	1	•	1	•	1	ı
This Observation	1	Previ		ndiana	Present	105	67.7	5.70	0.0	0.0	0.0	0.0	0.0	0.0	1.9	6.7	26.7	65.9	88.6	98.1	100.0	•	147	67.0	238	8.2
## Highway I-65  This Observation   India WATION   Last   Present   Last   India whicles obs.   284   308   169   Repsh.   0.0   0.0   0.0   Repsh.   0.0   0.1   1.8   Repsh.   0.0   0.1   1.8   Repsh.   0.0   0.1   1.8   Repsh.   0.0   0.0   0.0   Repsh.   0.0   0.0   Repsed   0.0   0.0   Repsh.   0.0   0.0   Repsh.   0.0   0.0   Repsed   0.0   0.0   Repsed   0.0   0.0   Repsed   0.0   0.0   Repsed   0.0   0.0   Repsh.   0.0   0.0   Repsed   0.0   0.0   Repsh.   0.0   0.0   Repsed   0.0   0.0	ocatio	d Cemen Las		Non-Ir	Last	115	68.1	6.77	0.0	0.0	0.0	0.0	0.0	1.7	3.5	10.4	27.0	54.8	87.0	96.5	99.1	99.1	1	ı	1	٠
Highway   I-6   Pate   Date   June 26, 10   Date	1		IGER CARS	iana.	Present	203	65.9	90.9	0.0	0.0	0.0	0.5	0.5	0.5	3.0	14.3	37.9	72.4	95.1	0.66	99.5	99.5	100	65.9	103	65.8
# Highway  This Observate  Thi	55	1968 12:3C	PASSE	Ind:	Last	169			0.0	0.0	0.0	0.0	0.0	1.8	7.7		41.4	71.0	88.0	96.5	98.8	0.00	ı	1	ı	ı
# Highway  This Observate  Thi	)-I	of Surfac une 26, 1		ווי	Present	308	66.5	00.9	0.0	0.0	0.0	0.3	0.3	0.3	2.60	11.7	34.1		- 1	98.7	7.66	99.7	147	66.3	161	2.99
This This This  WATION  WATION  Tehicles o  speed (m. n.p.h. m.p.h.	way	rvatio			Last	284	66.7	7.26	0.0	0.0	0.0	0.0	0.0	1.8	6.0	15.1	35.6	64.4	88.0	96.5	6.86	7.66	ı	ı	•	ı
S S Sound Bound bound brunos	2	This			OBSERVATION	io. of vehicles obs.	Average speed (m.p.h.	Standard deviation	24 n.p.n.	29 m.p.h.			# uet	[7	655 2	Ţ	0.0	J.E			84 m.p.h.	\$9 m•p•h•	Wo. of vehicles obs.	Average speed	No. of vehicles obs.	Average speed
	Stati	No.										S	970	ţŲ	ЭΛ	TT	,		_			1				



TABLE 3 SPEED DATA

Location

1-74

Highway

Station

1.0 Mile East of Post Road

Present 58.6 57.0 spunod 20.02 0.0 0.0 0.0 7.6 0.09 6.2 9 5.57 92,3 100.0 27 or more 5000 Last 0 0.0 0.0 0.0 0.0 6.8 56.8 95.5 57.9 100.0 4.98 22.7 88 ı 1 ı 9 Present Neather Last Previous Observation (Speed Report Date August 23, 1967 5000 pounds 59.5 0 0.0 0.0 0.0 0.0 5.9 26.5 50.0 76.5 91.2 58.9 0.09 7.00 100,0 PRUCKS Less than 20 Last 0.0 0.0 0.0 24.0 52.0 80.0 88.0 0.96 0.96 0 0.0 0.8 0.00 1:30-4:00 P.M. 59.8 25 1 ı Present 0 0.0 0.6 6.1 56.6 0.79 58.5 0.0 0.0 25.2 86.9 100.0 57.7 59.1 29 7 A1 Last 58.3 0 0 0 0 0.0 23.0 55.8 92.0 4.76 99.1 0.00 5.72 99.1 113 Time ı Portland Cement Concrete Present 0.0 6,46 % % 0 0.0 0 0.0 0.0 52.6 98.7 69.2 5.94 0 5.1 24.4 87.2 100.0 88.1 Non-Indiana 2 29 약 Last 88.5 0 0.0 0.0 0 0.0 0.0 3.5 9.21 50.6 82.8 95.4 97.7 7.10 28.7 98.9 87 PASSENGER CARS Present 65.9 99.9 0.0 0.0 0.0 7.0 2 5.4 12.4 40.3 92.2 98.4 9.66 66.5 65.4 0 99.7 243 123 120 Indiana Last 00.00 170 65.4 0 0.0 0.0 0.0 1.2 21.2 41.8 71.2 91.2 8:00-10:30 A.M 7.09 0 7.7 June 28, 1968 This Observation Surface Present 0.0 4.1 67.0 0.0 0.0 0.3 36.5 0.16 97.5 62.9 6.60 0 1.9 7 66 321 10.6 150 99 4 Last 0.0 18.3 64.2 2,00 0.0 0.0 0.0 0.0 6.2 37.4 88.3 96.5 0 257 66 Time Average speed (m.p.h. Wo. of vehicles obs. obs. Mo. of vehicles obs. Standard deviation vehicles m.p.h. m.p.h. m.p.h. m.p.h. m.p.h. OBSERVATION m.p.h. 29 m.p.h. m.p.h. mop.h. m.p.h. 64 m.p.h. 69 m.p.h. m.p.h. 84 m.p.h. Average speed Average speed No. of Lanes # 62 8 Jo Tess JO J.E than NO **Eraveling** ot vehicles All vehicles purnog



Location

I-65

Highway

Station

7.5 Miles North S.R. 160

Portland Coment Concrete   Portland Concrete	. 1							•																		
Parity   P	ldy	ĵ			Present	98	57.3	4.67	0.0	0.0	0.0	0.0	0.0	6.1	27.6	62.2	6.96	100.0	1	1	t	1	36	57.5	62	57.1
This Observation   Speed Report   Portland Cement Concrete   This Observation   Speed Report   Portland   Portland Cement Concrete   This   Postation   Speed Report   Pate   I.O3:30 P.M.   The   I.O3:30 P.M.	- 1	] 3		5000	Last	109	55.6	5.98	0.0	0.0	0.0	0.0	4.6	12.8	38.5	72.5	96.3	99.1	100.0	1	1	1	-	1	1	
This Observation   Pare   June 27, 1968    Time   June 27, 1968    Time   June 27, 1968    Time   Ji00-3:30 P.M.    All   Indiana   Non    WATION   Last   Present   Last   Present   Last    Speed (Mapp.h. 67.8 66.8 67.4 66.3 68.  68.  67.0  6.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0		1 1	RUCKS	than pounds	Present	29	62.2	5.33	0.0	0.0	0.0	0.0	0.0	0.0	06.90	24.1	65.5	93.1		-	1	-	16	62.4	13	62.0
This Observation   Pare   June 27, 1968    Time   June 27, 1968    Time   June 27, 1968    Time   Ji00-3:30 P.M.    All   Indiana   Non    WATION   Last   Present   Last   Present   Last    Speed (Mapp.h. 67.8 66.8 67.4 66.3 68.  68.  67.0  6.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	Wei	3, 1967 15 A.M.		Less	Last	21	58.5	6.53	0.0	0.0	0.0	0.0	0.0	14.3	23.8	52.4	85.7	95.2	100.0	-	1	-	ı	1	١	ı
This Observation   Pare   June 27, 1968    Time   June 27, 1968    Time   June 27, 1968    Time   Ji00-3:30 P.M.    All   Indiana   Non    WATION   Last   Present   Last   Present   Last    Speed (Mapp.h. 67.8 66.8 67.4 66.3 68.  68.  67.0  6.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	200	August 2 8:50-11:1		11	Present	127	58.4	5.25	0.0	0.0	0.0	0.0	0.0	4.7	22.8	53.4	89.8	98.4	100.0	1	ı	1	52	59.0	75	0 82
This Observation   Pate   June 27, 1968   Time   Time	te Obo	ate			Last	130	56.1	6.15	0.0	0.0	0.0	0.0	3.9	13.1	36.2	2.69	9.46	98.5	0.001	1	1	ı	1	t	ι	
This Observation   Pate   June 27, 1968    Time   June 27, 1968    Time   June 27, 1968    Time   Ji00-3:30 P.M.    All   Indiana   Non    WATION   Last   Present   Last    Speed (Ma.p.h.)   67.8   66.8   67.4   66.3   68.    Ideviation   6.50   6.01   6.46   7.00    Map.h.   6.70   6.00   0.0   0.0    Map.h.   6.70   6.00    Map.h.   6.70    Ma	nt Concre	I LIEUTO		diana	Present	169	67.2	5.72	0.0	0.0	0.0	0.0	0.0	0.0	1.8	11.2	27.8	65.1	92.3	98.2	100.001	-	81	67.7	88	8 22
This Observation   Parte   June 27, 1968     This Observation   1:00-3:30 P.M.     The   1:00-3:30 P.M.     The   1:00-3:30 P.M.     The   1:00-3:30 P.M.     The   1:00-3:30 P.M.     All   Indiana     All   I	ರ	## T		Non-Ir	Last	125	68.3	7.02	0.0	0.0	0.0	0.0	0.0	0.8	14.8	8.8	9.62	52.8	82.4	96.8	99.2	100.0	1	-	ı	
This Observation   1.00-3:30  The June 27,   This Observation   1.00-3:30  The June 27,   The Ju	Portlar		NGER CARS	iana	Present	154	66.3	947-9	0.0	0.0	0.0	0.0	0.7	1.3	3.9	11.7	37.7	69.5	91.6	98.1	100.0	-	65	66.7	89	0 99
This Obserface of Surface   This Obserface of Lune 27,   The   1:00-3:3     The   Lune 27,   The   1:00-3     The   The   The   The   1:00-3     The   The   The   The   1:00-3     The	0	1968 P.M.	PASSE	Ind	Last	145	4.79	6.01	0.0	0.0	0.0	0.0	0.0	0.0	2.3	8.3	33.1	64.8	87.6	6.76	100.0	1	_	-	1	
### Poser Trip Date Trime Date Trime Date Trime Date Trime Date Trime Date Date Date Date Date Date Date Dat	gf Surfac	June 27, 1:00-3:30		1	Present	323	66.8	6.01	0.0	0.0	0.0	0.0	0.3	9.0	2.8	11.5	32.5	67.2	92.0	98.1		1	146	67.2	177	
WATION This chicles o speed (map.b.e. map.b.e. m	Type				Last	270			0.0	0.0	0.0	0.0	0.0	7.0	3.7		31.5	59.3	85.2	4.76	9.66	100.0	ı	ı	1	
S	4				OBSERVATION	1	Average speed (m.p.h.	Standard deviation		29 m.p.h.			isn	[]	888	7 59	73	3£			84 m.p.h.		-	Average speed	_	hoogs openation
	No. o		<u></u>									-										10	-	$\neg$		_



## TABLE 5 SPEED DATA

	<del>dy</del> 5 )			pounds	Present	4.7	54.3	5.83	0.0	0.0	0.0	0.0	8.5	21.3	48.9	87.2	95.7	100.0	1	1	1	-	16	55.1	31	
	Cloudy No. 85			5000 or	Last	53	53.0	6.51	0.0	0.0	0.0	1.9	4.6	30.2	60.4	79.3	98.1	100.0	١	•	1	1	1	1		
38	1		TRUCKS	Less than 000 pounds	Present	38	59.1	6.92	0.0	0.0	0.0	0.0	2.6	10.5	23.7	52.6	76.3	92.1	100.0	1	1	1	13	58.9	25	
	Speed 1967			Less 5000	Last	148	57.8	7.94	0.0	0.0	0.0	0.0	6.3	20.8	33.3	54.2	77.1	95.8	0.00	•	1	1	ı	•	1	
1.2 Miles South of S.R.	Last Previous Observation (Speed Report Date August 22, 1967 Time 2:20-5:00 P.M.			A11	Present	85	56.4	6.75	0.0	0.0	0.0	0.0	5.9	16.5	37.7	71.8	87.1	96.5	100.0	1	•	•	କ୍ଷ	56.8	56	
Miles	ous Obse				Last	101	55.9	7.58	0.0	0.0	0.0	1.0	7.9	25.7	47.5	67.3	88.1	98.0	100.0	1	1	-	ı	1	1	
1	te Devlou De			diana	Present	50	66.2	6.19	0.0	0.0	0.0	0.0	0.0	2.0	2.0	14.0	1,0.0	64.0	0.96	100.0	•	-	18	67.7	32	
Location	Concre			Non-Indiana	Last	42	67.14	6.08	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.8	31.0	66.7	88.1	9.76	9.76	100.0	•	1	1	
	Asphalt Concrete		PASSENGER CAPS	Indiana	Present	227	64.3	7.11	0.0	0.0	0.0	₽ <b>.</b> 0	1.3	2.2	7.1	22.0	52.0	79.7	93.8	97.8	99.1	100.00	106	64.6	. 21	
31	908 P.M.		PASSE	Indi	Last	201	64.5	6.99	0.0	0.0	0.0	0.0	1.0	2.5	6.0	19.9	148.3	79.1	94.5	97.5	99.5	0.001	ı	1	1	
U.S.	Observation Surface Date June 26, 1968 Time 1:30-4:30 P.M.			All	Present	277	64.7	7.00	0.0	0.0	0.0	0.1	1.1	2.2	6.1	20.6	9.64	76.9	94.2	98.2	2.66	100.0	124	65.0	153	
italy	TYPEO	1		4	Last	243	65.0	6.92	0.0	0.0	0.0	0.0	0.8	2,1	4.9	17.3	45.3	6.91	93.4	97.5	2.66	0.00	1	•	1	
Station 5 Highway	No. of Lanes This Obsert Date				OESLRVATION	No. of vehicles obs.	Average speed (m.p.h.	날	24 m.p.h.	29 m.p.h.	29 34 m.p.h.		ave 14, medeho	7 + 49 mop.h.	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	59 п.р.н.	eho o de me pehe	d 69 m.p.h.	74 m.p.h.	79 m.p.h.	84 m.p.h.	89 m.p.h.	No. of vehicles obs.	Average speed	No. of vehicles obs.	popos of protein
Sta	No.											S	o Te	irl:	9.V	TT	<i>T</i>					3	un	Bo	pur	ac



## TABLE 6 SPEED DATA

Present 5.76 spunod 56.5 0.0 0.0 0 17.2 9.11 98.3 52.3 51.7 8 100.0 30 mo ma Clougy 5000 or 55.9 0.0 0.0 0.0 4.4 12.2 35.6 70.0 95.6 98.9 0.001 Last ١ No 90 1 Present Last Previous Observation (Speed Report 5000 pounds 10:30 A.M.-12:50 P.M. 60.1 0.0 0.0 0.0 0 . 0 25.0 75.0 58.8 Less than 59.7 0.0 41.7 PRUCKS 100.0 Jeather 김 ı #  $\infty$ 1967 1.0 Mile East of S.R. 28 0.06 100.0 80.0 15.0 55.0 Last 58.4 0.0 0.0 0.0 0.0 0.0 1,000 7.99 20 ı ı ı August 26 Present 54.0 55.3 0.0 0.0 71.4 94.3 38 0 7 2,9 15.7 56.8 6.25 47.1 100.0 었 20 6 AL A Last 0.0 3.6 36.4 67.3 92.7 97.3 0.00 0.0 0.0 12.7 110 56.4 0.0 6.27 Date Time 1 Present 66.3 68.5 30.4 0.0 0.0 0.0 0 0.0 0.0 0 7.1 6.70 92.9 98.2 43 8 Non-Indiana 112 67,1 100.0 Asphaltic Concrete Location Last 0.0 0 0,0 0.0 4.0 75.2 0,99 5.36 0.0 0.0 10.4 35.2 96.8 98.4 0.001 125 ı ı PASSANGER CARS Present 196 0.0 77.5 4.40 65,1 5.45 0.0 0.0 0.0 0.0 12.2 48.5 6.96 99.5 99.5 100.0 65.8 0,0 3.1 105 91 Indiana 100.0 Last 75.0 124 6.14 0.0 0.0 0.0 0 1.6 1.6 4.8 12.1 65.4 0.96 38.7 June 28, 1968 1:00-3:30 P.M. 1 This Observation Surface U.S. 52 Present 0 74.0 95.5 160 65.2 62.9 5.48 0.0 0.0 0 0.0 0.0 2,3 10.4 41,9 0.00 9.99 99.7 100.0 148 308 F 4.96 2.66 37.0 75.1 0.00 65.8 11.2 Last 5719 0.0 0.0 0.0 0 8.0 0 4.4 ı ١ Highway Date Tine Average speed (m.p.h. •sqo ops. o. of vehicles obs. Standard deviation vehicles vehicles 24 m.F.n. m.p.h. OBSERVATION 29 mepohe m.p.h. me D.h. m.p.h. m.p.h. m.p.h. m.p.h. m.p.h. mop.h. m.poh. m.p.h. m.p.h. speed Avera e speed 9 No. of Lanes 7 1/2 20 Average 8 ;. O than Tesa J.S JO ON ç Station \$ of vehicles All vehicles pumos Boun



## TABLE 7 SPEED DATA

			18	ent		2	Q	0	0	0	2	8	1	7	9	6	8	0					6		4
	Fair 85_)		pounds	Present	86	55.2	7.32	0.0	0.0	0.0	1,2	12.8	22.1	40.7	68.6	91.9	98.8	100.0		1	1	43	50.9	43	59.4
	130°.		5000	Last	80	52.6	6.77	0.0	0.0	0.0	8.4	12.5	30.0	55.0	86.3	97.5	100.0	1	•	1	-	1	1	1	1
2	Weather Wester Webort Webort Web.	TRUCKS	Less than 5000 pounds	Present	16	57.0	6.56	0.0	0.0	0.0	0.0	0.0	12.5	37.5	56.3	87.5	100.0	1	1	1	-	9	57.0	10	57.0
- 1	Te T		Les: 5000	Last	16	54.3	6.78	0.0	0.0	0.0	0.0	6.3	18.8	43.8	75.0	93.8	100.0	ı	1	1	-	1	1	1	-
1.0 Mile North of S.R.	Last Previous Observation (Spee Date August 28, 196 Time 2:30-4:00 P.M.		A11	Present	102	55.4	7.21	0.0	0.0	0.0	1.0	10.8	20.6	40.2	66.7	91.2	0.66	100.0	1	1	1	49	51.6	53	59.0
O Mile	edC			Last	96	53.0	6.79	0.0	0.0	0.0	4.2	11.4	28.1	53.1	84.4	96.9	100.0	1	1	-	1	1	1	1	ı
	Cement Concrete Last Previous ( Date Time		diana	Present	100	65.1	5.80	0.0	0.0	0.0	0.0	0.0	0.0	3.0	17.0	148.0	0.62	93.0	0.79	0.66		47	65.0	53	65.2
Location	Ö		Non-Indiana	Last	110	64.2	5.70	0.0	0.0	0.0	0.0	0.0	1.8	4.6	16.4	49.1	84.6	4.96	100.0	ŧ	-	ī	1	ı	ı
	Portland	PASSENGER CARS	Indiana	Present	152	65.3	6.31	0.0	0.0	0.0	0.0	0.7	3.3	6.6	19.7	66.5	88.8	95.4	98.0	100.0		83	65.9	69	62.8
41	e 968 P.M.	PASSE	Ind	Last	87	63.2	6.30	0.0	0.0	0.0	0.0	0.0	1.2	9.2	26.4	59.8	83.9	95.4	100.0	1	-	1	1	-	1
U.S.	Observation Surface Date July 1, 1968 Time 2:00-4:30 P.M.		AII	Fresent	252		6.20	0.0	0.0	0.0	0.0	0.4	2.0	7.1	18.7	59.1		94.4		9.66	100.0	130	63.7	122	63.8
way	rvatio			Last	197	63.8	5,98	0.0	0.0	0.0	0.0	0.0	1.5	9.9	20.8	53.8	84.3	95.9	0.76 0.001	1	1	1	1	1	_
n 7 Highway	No. of Lanes This Obser's Date			OESLIRVATION	10. of vehicles obs.	Average speed (m.p.h.	Standard deviation	24 m.p.h.	29 m.p.h.	34 m.p.h.		is 14 m.p.h.		54 п.р.р.	7 59 m.p.h.	o 64, m.p.h.	8 69 m.p.h.	74 m.p.h.	79 mep.ho	84 m yoh	Sy m.p.h.	No. of vehicles obs.	Average speed	No. of vehicles obs.	Average speed
Station	No. of				ā	V	S			- u		elc eve		ο. Θ.Λ			- L	0 9	<u></u>		7	um	-	pun	



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#### SPEED DATA $\infty$ TABLE

Present 57.1 5000 pounds 0.0 0.0 0.0 0 1 14.5 32.9 52.6 7.46 90.8 57.2 57.0 26 20 or more 54.2 Last 0.001 0.0 0.0 52.3 8 98.5 0 Present Last Frevious Observation (Speed Report Date August 17, 1967 5000 pounds 57.6 8.26 58.5 Less than 100.0 56.1 PRUCKS 0.0 0.0 0 8 16.0 92.0 0.0 30 52.0 76.0 25 Weather 0 1.0 Mile West of Klondike 100.00 56.0 6.17 Last 6.9 1:10-3:10 P.M. 0.0 0.0 0.0 4.6 6.90 3.3 25.5 8 4 ı Present 7.2 0.0 0.0 0 14.9 0.0 5.0 33.7 52.5 94.1 57.5 þ 87.1 56.8 100.0 99 35 A. 0.66 Last 54.8 5.90 0.0 0.0 0.0 12.4 50.5 75.3 97.9 0.00 2 ŧ 97 Time Present 100.0 1.00 113 66.2 0.0 0.0 0.0 0.0 0.0 6.0 73.5 95.6 98.2 65.5 5.34 34.5 Non-Indiana 67.3 Asphaltic Concrete 45 89 Location Last 66.2 6.81 100.0 0.0 0.0 0.0 0.0 0.8 5.3 11.3 69.2 90.2 0 38.4 97.0 1 PASSENGER CARS Present 153 64.3 0.0 0.0 0.0 0.0 98.0 5.33 0.0 78.4 4.49 64.1 5.9 15.7 54.9 98.7 0.7 100.0 76 77 9:30 A.M.-12:00 P.M. Indiana 64.0 Last 0.0 0 0.0 147 6.64 0.0 7.5 0.001 54.4 99,3 80.3 94.6 July 1, 1968 U.S. 52 This Observation Surface Present 0.0 0.0 0.76 266 65.1 5.74 0.0 0.0 0.0 0 12.0 46.2 76.3 122 65.5 144 64.8 4.1 100.0 F 100.0 Last 65.0 280 5.80 0.0 0.0 0.0 0.4 1.4 6.4 75.0 92.5 98.2 0.0 17.5 16.8 ı Highway Date Time Average speed (m.p.h. of vehicles obs. ops. •SGO Standard deviation vehicles of vehicles m. D.h. OBSERVATION 24 m.p. h. m.p.h. mopoh. m.poh. 74 m.p.h. m.p.h. m.p.h. mepohe m.p.h. m.p.h. · u · d · u 69 ш.р.h. 99 mepsh Average speed speed  $\infty$ AVETE Je No. of Lanes ... Jess 20 45 o . C. Station NO % of vehicles traveling All vehicles mog pumog



we]]	Weather Speed Report No. 85.	A.W.	TRUCKS	Less than 5000 pounds			3 40 84 66	10 84 52.8 47.9 5	140 84 52.8 147.9 7.22 7.00	10 84 52.8 47.9 7.22 7.00 0.0	10 84 52.8 47.9 7.22 7.00 0.0 0.0	10 84 52.8 147.9 5 7.22 7.00 5 0.0 0.0 0.0 0.0 2.5 3.6	52.8 147.9 5 7.22 7.00 5 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	10.0 26.7	10.0 84 52.8 47.9 5 7.22 7.00 5 0.0 0.0 1.2 2.5 3.6 5.0 11.9 10.0 26.7 25.0 54.8 2	10.0 26.7 57.5 51.8 2 57.5 51.8 5	10.0 24.9 5 7.22 7.00 5 0.0 0.0 0.0 0.0 1.2 2.5 3.6 5.0 11.9 10.0 26.7 25.0 54.8 2 57.5 91.7 5 82.5 95.2 8	22.8 47.9 5 7.22 7.00 5 0.0 0.0 0.0 0.0 1.2 2.5 3.6 5.0 11.9 10.0 26.7 25.0 54.8 2 57.5 99.8 9	22.8 14.9 5 7.22 7.00 5 0.0 0.0 0.0 5 0.0 1.2 2.5 3.6 5 10.0 26.7 25.0 51.8 2 57.5 99.8 9 100.0 100.0 10	22.8 14.9 5 7.22 7.00 5 0.0 0.0 0.0 0.0 1.2 2.5 3.6 5.0 11.9 10.0 26.7 25.0 54.8 2 57.5 91.7 5 82.5 95.2 8	10.0 814 52.8 147.9 5 7.22 7.00 5 0.0 0.0 0.0 1.2 2.5 3.6 5.0 11.9 5.0 11.9 5.0 514.8 2 55.0 514.8 2 57.5 91.7 5 82.5 95.2 8 97.5 98.8 9 100.0 1	100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 10.	100.0 100.0	100.0 10.0 10.0 10.0 10.0 10.0 10.0 10.	22.8 47.9 5 7.22 7.00 0.0 0.0 0.0 0.0 0.0 1.2 2.5 3.6 25.0 26.7 25.0 24.8 25.0 25.0 24.8 25.0 25.0 24.0 24.0 24.0 24.0 24.0 24.0 24.0 24	22.8
	Observation (Spee	8:45-11:39 A.M.		7.	Present Last	106 53	53.5 50.2	6.13 6.61	0.0	0.0	0.9 1.9	7	7.6 20.8	22.6 39.6	55.7 79.3	82.1 92.5	98.1 100.0	100.00	1	-		1				
1.0 Mile North of Boswell	ete ous Observ Date Au			EA.	Last Pr	137	1,8.8	6.92 6	0.0	6.0	2.9	10.2	24.1	6.84	86.9	94.2	99.3	00.00	1	1	•		ı	t 8		
1	P. P. P.	T		Non-Indiana	Present	102	60.7	5.91	0.0	0.0	0.0	0.0	0.0	3.92	16.7	41.2	72.6	95.1	100.00	-	8		ı	- 61	61.2	61 61.2 41
LOCA : 10n	Portland Cement Last	ı		Hon-Ir	Last	110	9.09	6.33	0.0	0.0	0.0	6.0	0.9	3.6	14.6	40.9	73.6	91.8	99.1	100.0	1		1	3 3	3 5 5	3 3 5 1
-	Portla		NOER CARS	Indiana	Present	145	58.7	7.91	0.0	0.0	0.0	0.0	3.5	13.1	30.3	51.0	7.7	90.3	98.6	99.3	100.0		1	- 09	- 60 60•3	- 60 60.3 84
Con Th	ıce 1968	30 A.M.	PASSENGER	Ind	Last	118	58.6	6.55	0.0	0.0	0.0	0.0	1.7	9.3	25.4	50.9	83.1	97.5	99.2	100.0	ı		1	l l	l l l	1 1 1 5
0	Observation Surface Date June 21, 19	9:00-11:30 A.M		ALLA	Fresent	242	59.5	7.21	0.0	0.0	0.0	0.0	2.0	9.3	24.7	0.74	75.7	92.3	99.2	9.66	100.0		3	121	- 121 60.7	121 60.7 125
Way	rvatio	1			Last	228	59.6	6.50	0.0	0.0	0.0	0.4	1.3	9.9	20.2	46.1	78.5	7.46	99.1	0.001	-		•	1	1 1 3	1 1 3 1
cauton 2 Highway	No. of Lanes This Obsert Date	Time			OESURVATION	No. of vehicles obs.	Average speed (m.p.h.	Standard deviation	24 m.p.h.	29 m.p.h.	34 m.p.h.	ΪŢ		- II		ĹOŢ	:uə	4 69 m.p.h.	0 74 m.p.h.	79 m.p.h.	84 m.p.h.		39 m.p.h.	12	Sym.p.h.	Sym.p.h. No. of vehicles on Average speed
No.												8	сте	the	9N	TTV	7						7.2	um	Bound	nd Bount



# TABLE 10 SPEED DATA

	Windy		pounds	Present	45	54.6	6.78	0.0	0.0	0.0	0.0	4.4	26.7	148.9	75.6	91.1	0.00		•	1		23	56.6	22	52.5
	Fair - W- No. 85		5000 p	Last P	147	54.5	5.74	0.0	0.0	0.0	0.0	2.1	10.6	7.44	70.2	93.6	100.0 1.00.0	ı	1	1	•	•	,	. 1	•
ers	7	TRUCKS	Less than	Present	33	55.6	8.36	0.0	0.0	0.0	0.0	12.1	24.2	48.5	9.09	87.9	0.79	0.79	100.0	1	1	20	54.2	13	57.7
Chalm	Veather Speed Report 1967	H	Less 5000	Last	37	57.8	9.60	0.0	0.0	2.7	5.4	8.1	16.2	37.8	56.3	70.3	89.2	97.3	100.0	ı	1	1	1	ı	1
2.0 Miles South of Chalmers	1		A11	Present	78	55.0	7.50	0.0	0.0	0.0	0.0	7.7	25.6	148.7	69.2	89.7	98.7	98.7	100.01100.0	1	-	43	55.5	35	54.4
Miles	ous Obse Date			Last	84	56.5	7.72	0.0	0.0	1.2	2.4	4.8	13.1	41.7	64.3	83.3	95.2	98.8	100.0	1	1	1	ı	1	-
	Concrete Last Previous Observation Date August 2 Time 9:00-11:		diana	Present	41	64.2	7.43	0.0	0.0	0.0	0.0	0.0	2.4	12.2	22.0	148.8	73.1	92.7	97.6	100.0	1	23	63.7	18	64.8
Location	9		Non-Indiana	Last	54	65.2	6.78	0.0	0.0	0.0	0.0	0.0	0.0	1.9	18.5	50.0	79.5	88	96.3	98.2	100.0		1	1	1
I	Asphaltic	PASSENGER CARS	Indiana	Present	245	62.6	7.97	0.0	0.0	0.0	0.0	1.2	1,-1	15.5	32.7	64.1	82.5	91.8	97.1	98.8	99.2	140	61.4	105	64.2
43	e 1968 P.M.	PASSE	Ind	Last	195	62.3	9.34	0.0	0.0	0.0	0.0	3.1	9.7	18.5	35.4	62.1	81.0	90.8	96.9	0.66	0.66	1	1	1	t
U.S.	Observation Surface Date June 21, 1968 Time 2:00-5:00 P.M.		ALL	Present	286	62.8	7.90	0.0	0.0	0.0	0.0	1,1	3.3	15.0	31,1	61.9	31.3	92.0	97.2	0.66	99.3	163	61.7	123	64.3
way	TAPE.			Last	549	65.9	8.91	0.0	0.0	0.0	0.0	2.4	7.6	14.9	81.7	4.69	80.7	20.4	96.8	98.8	2 60	1	1	•	1
on 10 Highway	No. of Lanes This Obser' Date			OBSERVATION	No. of vehicles obs.	Average speed (m.p.h.	Standard deviation	24 m.p.h.	29 m.p.h.			14 m.p.h.	49 mop.h.	9 9 54 m.p.h.	ed d 59 m.p.h.	ch of m.p.h.	v d 69 m•p•h•	o 74 mep.h.	79 m.p.h.	84 m.p.h.	39 m.p.h.	No. of vehicles obs.	Average speed	No. of vehicles obs.	Average speed
Station	No. o						03)							9V							1	um	-		nog



## TABLE 11 SPEED DATA

Location

U.S.

Highway

11

Station

3.0 Miles South of Rochester

Present 56.1 0.0 5000 pounds 54.6 5.36 0.0 0.0 0.0 1.9 50.9 83.0 0 3.96 100.0 α 3 or more 77.2 Cloudy Last 5.83 82.8 100.0 0.0 0.0 0.0 0.0 80 17.2 9.94 54. No. 1 230 Present Last Previous Observation (Speed Report Less than 5000 pounds 22.2 66.7 54.2 46.7 91.1 100.0 4.4 PRUCKS 54.6 8.34 0.0 2.2 6.7 6.7 Weather 28 45 75 1067 56.2 5.66 66.7 Last 36.4 6.06 100.0 12.1 1:30-3:30 P.M. 0.0 0.0 0.0 3.0 0.0 August 21 Present 55.2 100.0 54.2 54.6 2.0 6.85 0.0 1.0 18.4 0.04 75.5 4.1 3.1 63.0 8 98 F 42.9 76.9 15.4 7.96 55.0 5.81 0.00 Last 0.0 0.0 0.0 9.9 Date Time 16 Present 63.5 7.21 100.0 63.6 63.4 Non-Indiana 0.0 0.0 0.0 0.0 1.4 8.2 24.7 54.8 89.0 04.5 73 98.6 2.7 95.9 30 Asphaltic Concrete Last 6.57 63.1 1.6 59.0 0.0 0.0 31.2 0.0 3,3 83.6 98.4 00.00 61 ١ PASSENGER CARS Present 61.2 0.0 0.5 34.9 74.2 500 96.9 0.0 0.0 5.3 6.06 0.66 0.66 62.0 212 60.5 Indiana 26 86 62.5 7.24 Last 100.0 50,5 85.9 32.5 0.0 0.0 0.0 0.0 3.4 95.3 98.4 99.5 191 1:45-4:00 P.M. 1 June 24. 1968 ı 23 This Observation Surface Present 5.69 97.5 0.0 1.8 14.6 4.06 282 61.8 0.0 0.0 0.4 32.2 52.5  $\alpha$ 61.0 7.09 1,42 3 00 98 86 F 62.6 85.3 0.96 0.0 3.6 59.1 Last 7.08 0.0 0.0 0.0 1.2 32.1 9.66 0 α 252 100 98 ı Time Date Average speed (m.p.h. ops. ops. No. of vehicles obs. Standard deviation vehicles vehicles OBSERVATION 24 m.p.h. 29 m.p.h. 34 m.p.h. 49 mopoh. m.poh. 79 m.p.h. 84 m.p.h. 39 m.p.h. 44 m.p.h. 59 m.p.h. 64 m.p.h. 69 m.p.h. 74 m.p.h. m.p.h. Average speed Average speed 24 No. of Lanes 8 of of 45 rpsn Tesa JO No. No. traveling % of vehicles All vehicles punog



## TABLE 12 SPEED DATA

Present 55.3 5000 pounds 51.1 5.90 53.2 0.0 0.0 0.0 0.0 8 22.2 63.9 83.3 97.2 97.2 100.0 or more Fair 4.80 0.0 0.0 0.0 0.0 4.3 8.63 61.7 0.00 52.4 95.7 Last ı ı ı No. Present Concrete Veather Last Previous Observation (Speed Report Date August 25, 1967 5000 pounds 100.0 54.9 0.0 0.0 0.0 11.4 40.0 71.4 94.3 7.17 2.0 6,45 TRUCKS Less than 17 :30 A.M.-12:00 P.M. 0.7 Miles West of Americus 92.9 5.6 27.8 61.1 0.0 0.0 0.0 0.0 97.2 0.00 Last 36 1 ı Date August 25. Present 52.9 55.1 54.0 0.0 0.0 0.0 1.4 7.0 22.5 77.5 98.6 35 52.1 95.8 6.57 100.0 30 7 100.0 0.0 0.0 0.0 28.9 61.5 4.06 98.8 0.0 8.4 Last 52.7 5.22 ı 8 83 1 Time Present Asphaltic Concrete 63.9 62.1 100.0 63.0 0.0 0.0 3.5 0.0 0.0 0.0 29.0 61.3 90.3 96.8 3.2 16 15 Non-Indiana Location Last 0.0 2.6 2.6 59.6 0.0 0.0 20.5 51.3 84.6 89.7 100.0 0.0 얾 1 8 PASSENGER CARS Present 0.0 0.0 0.0 0.0 51.4 46.9 0.0 2.7 17.7 41.9 71.0 88.7 95.2 98.9 61.4 61.3 100.0 10:00 A.M.-12:30 P.M. 95 9 Indiana Last 26.6 8.49 0.0 0.0 0.0 0.0 1.7 11.3 7.64 74.0 88.7 9.96 7.76 4.66 47.66 59.7 ı June 24, 1968 S.R. 25 This Observation Surface Present 4.56 0.0 0.0 88.9 61.7 6.79 0.0 0.0 0.0 2.8 15.7 9.69 99.1 61.5 106 40.1 100 H 217 AL 8.10 59.7 Last 216 0.0 0.0 0.0 0.0 1.9 22.5 0.0 88.9 27.2 98.2 30.5 36.6 9.7 6.5 1 Highway Date Time Average speed (m.p.h. ops. No. of vehicles obs. of vehicles obs. Standard deviation No. of vehicles m.p.h. 24 1.0 F. O. 29 m.p.h. m.p.h. mopoh. m.p.h. m.p.h. OBSERVATION m.p.h. m.p.h. m.p.h. m.p.h. m.p.h. m.poh. m.p.h. Average speed spead 75 65 77 29 <del>2</del> No. of Lanes Average Ţeza than JO 35 0 Station traveling \$ of vehicles All vehicles puriog



TABLE 13 SPEED DATA

Present 5000 pounds 0.0 22.7 6.65 61.6 7.66 0,3 100.0 7.66 or more Last 100.0 9.0 0.0 66.2 346 0.0 0.3 7.8 27.8 7.56 4.66 5.25 2 Present Last Previous Observation (Speed Report Less than 5000 pounds 100.0 TRUCKS 42.0 0.0 0.0 0.0 0.0 1.0 6.0 20.0 98.0 Weather 7.27 72.0 0.06 0.66 73.8 0.0 23.8 46.3 0.00 Last 0.09 0.0 0.0 0.0 10.0 88 5.76 7.55 See Individual Stations 80 8 Present 100.0 87.4 444 58.5 0.0 0.0 0.2 55.9 97.5 99.3 5.85 0.0 1.4 6.1 22.1 F 100.0 0.0 8 4.79 0.2 9.1 62.4 91.6 99.5 Last 0,5 27.0 2 5.86 90.8 126 Date 57. Present 0.0 0.0 8.7 26.3 9.69 89.2 67.9 0.0 C 0.0 1,9 00 100.0 Non-Indiana 426 66 Location Last 100.0 0.0 0.0 0.0 0.0 28.1 53.0 308 6.97 0.0 10.3 0.66 PASSENGER CARS Present 0.0 0.0 37.5 71.0 93.0 99.7 98.5 7.66 116.9 0.7 0.7 12.1 Indiana Interstate Last 36. 0.0 38.0 653 0.0 0.0 0.0 0.0 15.0 67.8 88.3 0 7.66 90.8 5 This Observation Surface Present 0 0.0 0.0 0.1 10.9 33.4 6.99 91.5 97.9 7.66 50 0.1 4 Last 0.0 0.0 0.0 0.0 0.0 0.0 4.6 13.2 34.3 62.2 90.9 86.7 96.5 8.66 1051 67.1 Highway 00 Time Date Average speed (m.p.h. No. of vehicles obs. Standard deviation Station 1,2,3, & 4 34 m.p.h. m.p.h. 84 m.p.h. OBSERVATION 29 m.p.h. mop.h. m.p.h. m.p.h. m.p.h. 69 m.p.h. m.p.h. 24 m.p.h. 59 m.p.h. No. of Lanes 太 ŧ # 62 than Jess JO 7.6 traveling % of vehicles All vehicles



TABLE 14 SPEED DATA

Last | Present 5000 pounds 267 0.0 18.7 42.3 70.8 98,1 or more 93. 100.0 0.0 0.0 0.0 20.8 288 78.8 97.2 99.3 9 Last Present Weather Last Previous Observation (Speed Report Less than 5000 pounds 0.0 78.0 TRUCKS 0.0 29,7 51.7 94.5 .20 12,1 0.001 0.001 9 200 39.7 59.5 See Individual Stations 0 0.0 0.0 85. Present 0.0 0 17.0 62.9 7.68 6.93 0.0 97.2 39.1 0.001 0.001 AL AL 0.0 0.0 0.0 19.6 46.5 93.8 7.2 98.5 0 Last 1107 Date ı Time Present 100.0 Non-Indiana 0.0 0.5 0 7.40 7.66 98.1 Location Last 100.0 0.0 0.0 0.0 74.9 93.7 98.3 8.66 8 410 PASSENGER CARS Present 100.0 100.0 18.0 95.0 0.0 0.0 54.7 64.2 0.0 80.7 98.5 6.66 Indiana 728 Last 0.0 0.0 0.0 9.0 20.0 9.64 79.3 8.66 49.5 95.0 4 Lanes This Observation Surface Present 100.0 1103 64.9 0.0 0.0 0.0 48.9 77.3 95.6 98.4 8,66 0.4 14.5 0 扫 100.0 98.7 5.5 01. 11 Last 0.0 0.0 0.0 0,5 8.66 0:0 77.165.0 696 Station 5,6,7,88 Highway Date Time Average speed (m.p.h. No. of vehicles obs. Standard deviation 84 m.p.h. m.p.h. m.p.h. OBSERVATION m.p.h. 29 mepohe m.p.h. m.p.h. mop.h. m.p.h. m.p.h. m.p.h. m.p.h. m.p.h. No. of Lanes 29 t 77 62 九 Tesa J.E than JO traveling % of vehicles All vehicles



TABLE 15 SPEED DATA

See Individual Stations	Last Previous Observation (Speed Report No. —	Line	TRUCKS	na All Less than 5000 pounds	t Las	7 395 353 159 153 236	52.7 54.3 53.9 54.4	7.22 6.72 7.66 7.80	0.0 0.0 0.0	0.3 0.3	1.3 0.9 1.3 2.0	4.1 1.7 3.8 3.9	11.9 6.5 10.7	29.4 22.1 25.3 8	7 61.8 51.5 56.6 48.4 65.3	7 70.6 87	95.2 94.6 90.6 92.8	4.69 5.79 4.69 0.69	1, 99 1, 99 7, 99, lt	0.00.0 0.00.0	,	
Location	Last Pr		CARS	Non-Indiana	Present Last Pres	785, 264 247	61.2 61.9 62.4	7.57 6.72 6.69	0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	0.4 0.0	1.5 1.1 0.4	5.7 2.7 3.2	5. 11.0.11	35.5 31	0 67.1 61.9	87.1	7 96.9 96.8	5 99.2 98.4	4, 99.6	
2 Lanes	face		PASSENGER CARS	Indiana	Last	681 78	61.0	8.25 7	0.0	0.0	0.0	0.0	1.9 1	8.4 5	20.4 18	41.0 38.9	68.0 71	87.2 87.6	95.0 95.7	98.1 98.5	99.5 99.4	
ı	Observation Surface Date			LTA	Last Present	945 1032	61.3 61.5	7.86 7.38	0.0 0.0	0.0 0.0	0.0 0.0	0.1 0.1	1.7 1.3	6.8 5.1	17.8 16.9	39.5 37.1	67.7 68.8	87.2 88.2	95.6 95.9	98.4 98.5	99.5 99.4	2 00 2 00
Station 9,10,11,12 Highway	No. of Lanes This Observed	1706			ORSERVATION	No. of vehicles obs.	Average speed (m.p.h.	n	24 m.p.h.	29 m.p.h.	24 m.p.h.	ŢŢ.	ave nan	H th to mo Do ho	s s 54 m.p.h.	roj	d o 64 m.p.h.	d 69 m.p.h.	74 m.p.h.	79 mepeho	84 m.p.h.	



# TABLE 16 SPEED DATA

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